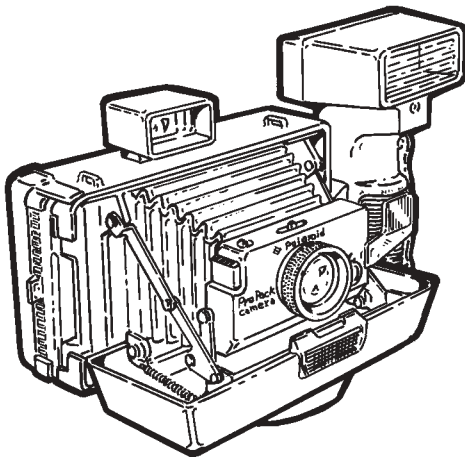




ProPack Camera



User Guide

IMPORTANT SAFEGUARDS

AS WITH ANY BATTERY-OPERATED EQUIPMENT, OBSERVE THESE BASIC SAFETY PRECAUTIONS.

1. FOLLOW ALL INSTRUCTIONS.
2. CLOSELY SUPERVISE UNIT WHEN IT IS BEING USED BY OR NEAR CHILDREN.
3. ALWAYS USE BATTERIES RECOMMENDED.
4. DO NOT USE UNIT IF IT HAS BEEN DROPPED OR DAMAGED — UNTIL IT HAS BEEN EXAMINED AT AN AUTHORIZED POLAROID SERVICE CENTER.
5. TO AVOID ELECTRICAL SHOCK HAZARDS, DO NOT DISASSEMBLE UNIT. SERVICE OR REPAIR WORK MUST BE DONE ONLY BY AN AUTHORIZED POLAROID SERVICE CENTER. INCORRECT REASSEMBLY CAN CAUSE ELECTRICAL SHOCK WHEN UNIT IS USED AGAIN. DO NOT IMMERSE UNIT IN WATER OR OTHER FLUIDS.

PLEASE KEEP THESE INSTRUCTIONS

Introduction

This instruction book describes the following:

- The Polaroid ProPack Professional Instant Camera (camera only)
- The Polaroid ProPack Professional Instant Camera System (camera and Polaroid ProFlash electronic flash unit)

The camera models are identical in function. If you do not have the System, disregard the sections that relate to the operation of the ProFlash.

The camera features automatic exposure control and easy focusing with the use of a distance scale marked on the lens barrel. A built-in digital timer helps you keep track of your film development time. The camera accommodates Hi-Power or regular flashcubes for flash pictures. There are nine different kinds of Polaroid pack film to choose from to suit your particular need, including color and black-and-white. The system is ideal for professional and business use when instant, high quality images are required.

The ProPack System includes the ProFlash electronic flash unit, featuring automatic exposure control and a powerful output that allows you to photograph distant subjects (50-75 ft./15.2-22.9m) with flash when using high speed black-and-white film.

Film

Your camera uses nine different types of Polaroid instant pack film in two different picture formats:

- "Square" format: $3\frac{1}{4} \times 3\frac{3}{8}$ in. (8.5 x 8.6 cm)
- Rectangular format: $3\frac{1}{4} \times 4\frac{1}{4}$ in. (8.5 x 10.8 cm)

Picture-taking reminders

Nonflash pictures:

- Turn off flash (or remove cube)
- Set film selector
- Check L/D on camera
- Set distance scale
- Frame subject and press shutter release

Flashcube pictures:

- Be sure subject is within flashcube range
- Insert cube
- Set film selector
- Check L/D on camera
- Set distance scale
- Frame subject and press shutter release

ProFlash pictures:

- Be sure subject is within flash range
- Turn on flash
- Set film selector
- Check L/D on ProFlash
- Set distance scale
- Frame subject and press shutter release

Call us, free

Whenever you have a question about your equipment or pictures, call us toll-free at 800-343-5000 from anywhere in the U.S.A. We can be reached every weekday from 8 a.m. to 8 p.m., Eastern Time.

You can reach us at the Americas Business Center, 201 Burlington Rd., Bedford, Mass. 01730. Include your address and a day-time phone number.

Outside the U.S.A., contact the nearest Polaroid office.

Film Type	ISO Speed equivalents	Picture format	Picture type
Polaroid Polacolor Type 88	80/20°	Square	Color prints
Polaroid Polacolor Type 108	80/20°	Rectangular	Color prints
Polaroid Polacolor Type 669	80/20°	Rectangular	Color prints
Polaroid Polacolor Type 668	80/20°	Rectangular	Color prints
Polaroid Type 87	3000/36°	Square	Coaterless black-and-white prints
Polaroid Type 107	3000/36°	Rectangular	Black-and-white prints
Polaroid Type 107C	3000/36°	Rectangular	Coaterless black-and-white prints
Polaroid Type 667	3000/36°	Rectangular	Coaterless black-and-white prints
Polaroid Type 665	80/20°	Rectangular	Black-and-white prints and negatives

Each pack produces 8 prints.

The numbers throughout the text refer to pictures at the end of this book.

The Polaroid ProPack camera (pictures 1-3)

- A. Film tab slots
- B. Neck strap
- C. Camera cover
- D. Cover release
- E. Tripod socket/Flash bracket socket
- F. Locking bars (both must be firmly locked when camera is open)
- G. Shutter release
- H. Cable release socket
- I. Distance scale
- J. Viewfinder
- K. Film selector
- L. Lighten/Darken control
- M. Electric eye
- N. Flashcube socket
- O. Flashcube shield
- P. Lens
- Q. Ring handle
- R. Digital timer
- S. Film door
- T. Latch (to unlock film door)
- U. Developer rollers (see picture 8A)

The Polaroid ProFlash electronic flash unit (picture 4); ProPack System only

- A. Lighten/Darken switch
- B. Ready indicator light
- C. OFF/ON switch (0/1)
- D. Electric eye
- E. Tripod socket
- F. Mounting screw
- G. Mounting bracket
- H. Battery door
- I. Hand strap

Get Ready

Load the batteries into the ProFlash (ProPack System only)

Slide the door in the direction of the arrow to open it (5). Insert four 1.5V AA alkaline batteries, matching the + and - symbols on the inside of the compartment, then slide the door shut while holding the batteries in place. (Rechargeable 1.2V nickel-cadmium batteries also can be used.)

Mount the ProFlash (ProPack System only)

Position the flash unit and camera as shown (6). Screw the mounting bracket into the socket on the camera until it is firmly attached. For convenience, leave the flash unit mounted to the camera at all times.

Open the camera

Push in the cover release (1D) and lower the cover until the camera locks in the open position.

To close the camera, make sure there is no flashcube in the flashcube socket. Then push in the cover release or press down on both locking bars (2F). Close and latch the cover.

Load the film

Open the latch, then open the film door (7), away from direct sunlight. Check the developer rollers (8A); they must be kept clean (see "Maintenance"). Hold the film pack by the edges and insert it (8). Be sure the white tabs are not caught between the film pack and the camera body (9).

Close and latch the film door; the black film cover should appear (10). Holding the camera in your left hand by the handgrip on the flash unit (ProPack System, 11) or by the ring handle (ProPack camera, 12), pull the black film cover straight and all the way out of the camera.

Before you take a picture

Set the digital timer (13)

Press and hold the SET button until the correct development time (see the film instructions) is displayed. The timer will always return to this time after a development cycle until you reset it.

To reset the timer to a new development time:

To reset it to a higher number than is now displayed, simply press the SET button until the new time is displayed. To reset it to a lower number:

1. Press START once (countdown begins).
2. Press START again (countdown stops in mid-cycle).
3. Press SET once (zero is displayed and preset time is cancelled).
4. Press SET steadily until the new time is displayed.

Check the Lighten/Darken control on the camera

It should be set to normal as shown (14) except in certain lighting (see "To take bright outdoor daylight pictures") and in hot and cold weather with color film (see film instructions). Also, use it to retake a picture that is too light or too dark. Each mark represents 1/3 stop change in exposure. When you are using the ProFlash, use the Lighten/Darken switch on the flash unit instead (see "To take pictures with the ProFlash").

Set the film selector (15)

When using color film or Type 665 film, set it to **80**. When using black and white 3000 speed film, set it to **3000** for daylight and flashcube pictures, **3000ER** for ProFlash pictures at close and medium range, and to **80** for ProFlash pictures of distant subjects. See "Picture-taking guide" for flash ranges.

Also, you can take black-and-white pictures indoors by using available light from the scene and setting the film selector to **3000ER**; for details, see "To take indoor pictures without flash."

Set the distance scale (16)

Measure or estimate the distance from the camera lens to your subject. Turn the lens ring until the distance (in feet or meters) is opposite the symbol (∇) above the lens. Be sure your subject is within the range shown in the "Picture-taking guide" for your picture-taking situation.

View and frame your subject

As you look through the center of the viewfinder, you should see a white frame. If you do not see all four corners of the frame, move the camera slightly until you do.

Whatever you want to include in rectangular pictures (Types 108, 669, 668, 107, 107C, 667 and 665 film) must be placed within the full area of this white frame (17).

For square-format pictures (Type 87 and 88 film), use only the area within the white frame that is to the left of the two inner notches (18).

Take the picture

Picture-taking guide



This guide is designed to give you good pictures for the conditions shown. However, deviations from these recommended situations or settings

can produce acceptable results depending on the scene. Experience in a variety of picture-taking situations will be most helpful in understanding the capabilities of your equipment.

		Film Speed	System		Film selector
Scene lighting		ISO	lighting	Subject distance	setting
Both cameras	Bright daylight	3000/36° 80/20°	No flash No flash	3 ft.-∞ (0.9m-∞) 3 ft.-∞ (0.9m-∞)	3000 80
	Bright indoors	3000/36°	No flash	3 ft.-∞ (0.9m-∞)	3000ER
	Indoors, dark outdoors	3000/36°	Hi-power cube	4-12 ft.(1.2-3.7m)	3000
		3000/36°	Regular cube	4-8 ft.(1.2-2.4m)	3000
		80/20°	Hi-Power cube	4-12 ft.(1.2-3.7m)	80
		80/20°	Regular cube	4-8 ft.(1.2-2.4m)	80
ProPack System	Indoors, dark outdoors	3000/36°	ProFlash	3 1/2-25 ft.(1.1-7.6m)	3000ER
		3000/36°	ProFlash	50-75 ft.(15.2-22.9m)	80
		80/20°	ProFlash	3 1/2-12 ft.(1.1-3.7m)*	80

*When photographing distant subjects with flash, 80 speed film cannot be used.

To take bright outdoor daylight pictures

Stand so the sunlight comes from behind you or from the side. Watch the background. When the light on the background is much brighter than the light on your subject, your subject will be too dark in the finished picture. In these conditions, set the Lighten/Darken control on the camera toward Lighten  and take the picture. When the background is much darker than your subject, your subject will be too light in the picture. Set the control toward Darken  before taking the picture.

1. Set the film selector to 80 for color film (and Type 665 film) or to 3000 for black and white 3000 speed film.
2. ProPack System: Be sure the flash unit is switched off. Both cameras: Be sure there is no flashcube in the flashcube socket.
3. Once you have set the distance scale and framed your subject, press the shutter release as described.

To take indoor pictures without flash

Your camera has an extended range (ER) shutter that lets you take black-and-white pictures without flash indoors by using available light in the scene. (If there is not sufficient light in the scene, use flash.)

1. Load the camera with Type 87, 107, 107C or 667 black-and-white film.
2. Set the film selector to 3000ER, and rely on the existing light from the scene. Indoors the light source should be high overhead, behind you or to your side. Avoid bright lights facing the camera. For best results, use a tripod.
3. ProPack System: Be sure the flash unit is switched off. Both cameras: Be sure there is no flashcube in the flashcube socket.
4. Once you have set the distance scale and framed your subject, press the shutter release as described.

To take flashcube pictures

Insert a Hi-Power or regular flashcube into the flashcube socket on the camera (19), and turn it clockwise as far as it will go. After four flashes, the cube will stop at a 45 degree angle. Partially used cubes should be wound, removed, and reinserted so a used bulb faces down and a fresh one forward. Before closing the camera, remove the flashcube. The flash range for Hi-Power cubes is 4-12 ft. (1.2-3.7m) and for regular cubes is 4-8 ft. (1.2-2.4m); be sure your subject is within those ranges. Set the film selector to 3000 for 3000 speed film and to 80 for 80 speed film.

To take pictures with the ProFlash (ProPack System only)

For best results, place your subject near a light-colored background, if possible. When photographing more than one subject, place each subject about the same distance from the camera so they all will be lit evenly by the flash.

1. Turn on the flash unit (20A). The green LED will light when the flash is fully charged.

2. Be sure the film selector on the camera is correctly set for your picture-taking situation. *Note:* For distant subjects (50-75 ft./15.2-22.9m) at night, you must use 3000 speed film and set the film selector to **80**. Color film cannot be used for flash pictures beyond approximately 12 ft. (3.7m).

Film	Film selector	Flash range
Color ISO 80/20**	80	3 1/2-12 ft. (1.1-3.7m)
B&W ISO 3000/36°	3000ER	3 1/2-25 ft. (1.1-7.6m)
B&W ISO 3000/36°	80	50-75 ft. (15.2-22.9m)

*This setting also applies to type 665 B&W film.

3. Be sure the Lighten/Darken switch on the ProFlash is set to normal as shown (20B). Use it to lighten (↔) or darken (➡) a picture that is too dark or too light. Also, use it in hot or cold weather with color film (see film instructions). Each setting will change exposure by 1/2 stop. The L/D control on the camera does not function for electronic flash pictures.

4. Make sure the ready light (20C) is lit, indicating the flash is fully charged. Once you have set the distance scale and framed your subject, press the shutter release as described.

5. After you take a picture, the ready light will go out for a few to several seconds* to indicate that the flash is charging. (If the flash takes more than 30 seconds to charge, it is time to replace the batteries in the flash unit; see instructions under "Maintenance.") When the ready light comes on, you can take another flash picture. If you don't plan to take another flash picture right away, turn off the unit to minimize battery drain. **Always turn off the flash unit when not in use.**

Note: To help prevent battery drain, the flash unit will automatically shut off after about three minutes. The switch will still be on, but the ready light will not be lit. To take another flash picture, move the Off/On (0/1) switch to off then on again. (If you neglect to do this, the flash will fire but your picture may be too dark.)

6. If you are using black and white 3000 speed film and your next picture is a bright outdoor (nonflash) picture, be sure to change the film selector to **3000**.

Press the shutter release

You must keep the camera steady as you take the picture. Get a firm grip with your left hand. Keeping your right thumb in line with the shutter release, place it under the front of the camera as shown (21). Slowly press the shutter release with your right forefinger. At the same time, press up with your thumb to help keep the camera steady. Hold the shutter release down for at least one second.

*Recharge time depends on the freshness of your batteries, and subject distance.

Develop the picture

See the film instructions for the correct development time. ProPack System: Hold the camera by the handgrip on the ProFlash while pulling tabs, as shown in (11). ProPack camera: Hold the camera by the ring handle while pulling tabs so the camera hangs freely, as shown in (12).

Pull the white tab

Grip the center of the white tab. Pull it out of the camera (22). A yellow tab will appear. If no yellow tab appears when you pull a white tab, see below.

Pull the yellow tab

Grip the center of the yellow tab. Pull straight, at a moderate speed, until the film is out of the camera (23). Start timing development now.

Start the timer

The correct development time should already be set (see "Set the digital timer"). Press the START button once (24); the timer will count down from the preset time to zero. At the end of the development time, a series of short tones will sound. Peel the print immediately, as described below. The timer will reset for the next picture. (To change the development time, see "Set the digital timer.")

Peel the print

At the sound of the tones, peel the print from the negative, starting at the end near the yellow tab (25). Discard the negative, except when using Type 665 film (see film instructions).

If no yellow tab appears when you pull a white tab

Do not pull another white tab. In dim light, open the camera, holding the film pack in position (26). Gently pull out the top yellow tab and discard it (27). Clean the developer rollers, if needed. Unfold the white tab. Then close the camera, with the next white tab showing.

Picture faults and causes

Black or very dark picture: Batteries dead or inserted incorrectly in camera or flash unit; wrong film type; wrong film setting; flash unit not turned on (flash picture); used cube in cube socket (nonflash picture); camera or flash unit may need repair.

Dull, weak colors: Not developed long enough. See film instructions.

White or very light picture: Wrong film setting.

Missing corner: Yellow tab pulled out at an angle.

Evenly spaced dots: Dirty rollers.

Vertical streaks: Stopped or hesitated when pulling yellow tab.

Blurry (out-of-focus) picture: Distance scale not set correctly; subject movement; camera movement (use a tripod); not enough available light (use flash if possible).

White specks: Yellow tab pulled too fast.

Caution

The Polaroid photographic process uses a caustic jelly which is safely packed inside sealed containers within the film pack. **If accidentally you should get some of this jelly on your skin, wipe it off immediately.** To avoid an alkali burn, wash the area with plenty of water as soon as possible. **It is particularly important to keep the jelly away from eyes and mouth.** Keep discarded materials out of reach of children and animals, and out of contact with clothing and furniture, as discarded materials still contain some jelly.

Maintenance

To clean the rollers

Lift the two metal loops as shown (28) and remove the rollers. (The serial number is located beneath the rollers.) To clean them, use a cloth dampened with water (29). Never scrape the rollers with anything metallic, nor with your fingernail; do not attempt to disassemble the rollers. Blow out any dust in the back of the camera. Clean slots (30A) and (30B) if necessary. Replace the rollers.

To test the camera batteries

Without film or electronic flash connected, set the film selector to 80. Cover the electric eye with your finger and aim the camera at a light (not the sun). Press and hold down the shutter release. You will hear a click. Uncover the electric eye. You will hear a second click if the batteries are good.

To change the camera batteries (at least yearly)

With the camera's front cover closed, open the camera back. Pull down on the fingerrip (31A) and remove the old batteries. Using two new batteries (size AA, 1.5V alkaline), point the – end of the left battery and the + end of the right battery toward the top of the camera, as shown on the battery holder (32A). Insert each battery between the metal contacts. Close and latch the fingerrip.

To change the ProFlash batteries (ProPack System only)

If the flash takes more than 30 seconds to charge, replace the batteries with four new batteries (size AA, 1.5V alkaline) as described under "Load the batteries into the ProFlash." Rechargeable 1.2V nickel-cadmium batteries also can be used.

ProFlash battery life: To prevent draining the batteries, always turn off the ProFlash when not in use. (To help prevent battery drain, the flash unit will automatically shut off after about three minutes.) To maximize battery life, turn off the electronic flash immediately after taking a flash picture, before it has a chance to recharge.

To change the digital timer batteries

If the display or tones fade, or the timer stops functioning, open the battery cover and replace the batteries with two new batteries (GP-89A or equivalent, 1.5V), positioned as shown (33). Replace the cover. To restore the display, press SET and START simultaneously.

Storage of the ProFlash (ProPack System only)

If you are storing the unit for an extended period, remove the batteries and store them separately. This will prevent possible damage to the unit from leaking batteries. Protect the flash unit from moisture and from extreme heat and cold. Storage in extreme temperatures can shorten battery life. Keep the batteries and battery contacts clean.

To rethread the neckstrap

If you remove the neckstrap, be sure to thread it as shown in the illustration (34) when replacing it on the camera. It is particularly important to thread it as shown when the Polaroid ProFlash is attached to the camera.

To clean the camera lens

Wipe it with a clean cloth. Never use silicone-treated eyeglass tissue.

Never leave your equipment in a hot, humid place.

Repairs

If you believe your equipment needs repair, before you send it to us, call the Polaroid Resource Center toll free and explain the problem. You may be able to use your equipment again right away, without repair.

Your Polaroid dealer will return your equipment for repair, should that ever be necessary. Or you may bring it to a Polaroid Service Center, which offers walk-in service. Many repairs can be made while you wait.

Or, you may mail the equipment to Polaroid for repairs. Pack it carefully. Address it to the nearest Polaroid Service Center and send it by insured parcel post. Include a note describing the problem and, if you can, pictures that illustrate it.

Full one-year warranty (U.S.A. only)

If your camera or electronic flash unit proves to be defective within the warranty period we will repair it or at our option replace it with a similar product without charge. The warranty applies whether you do or do not return a registration card to us.

The warranty period is one year from the original date of purchase. **To verify the warranty period, you should keep the sales slip or other proof of the purchase date.** Without this information, the warranty period is two years from the manufacturing date on the equipment.

If, within the warranty period, the equipment is mailed to us for service from inside the U.S.A., it will be returned with a postal refund.

This warranty does not cover damage caused by accident, misuse, or tampering with the equipment, and a charge will be made for such repairs.

For warranty service the equipment must be returned to and repaired by a Polaroid Service Center or Authorized Service Center. You can return the equipment through your Polaroid camera dealer. If that is not convenient, see "Repairs" for information on returning the equipment, or call the Polaroid Resource Center toll free at **800-343-5000** from anywhere in the U.S.A. We can be reached Monday through Friday, 8 a.m. to 8 p.m., Eastern time.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state. **This warranty excludes all consequential damages. Some states do not allow the exclusion or limitation of accidental or consequential damages, so the foregoing limitation or exclusion may not apply to you.**

Full one-year warranty (outside the U.S.A.)

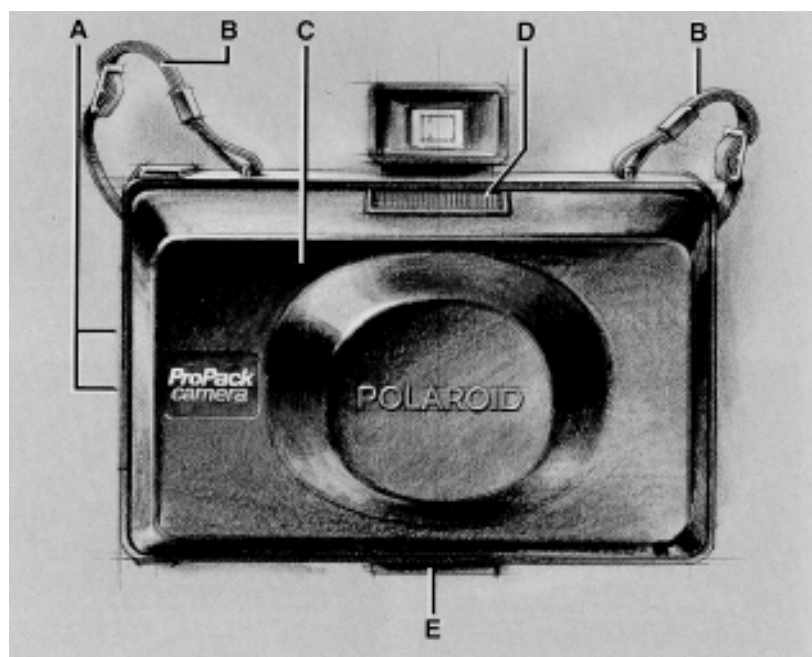
If your camera or electronic flash unit proves to be defective within the warranty period we will repair it or at our option replace it with a similar product without charge. The warranty applies whether you do or do not return a registration card to us.

The warranty period is one year from the original date of purchase. **To verify the warranty period, you should keep the sales slip or other proof of the purchase date.** Without this information, the warranty period is two years from the manufacturing date on the equipment.

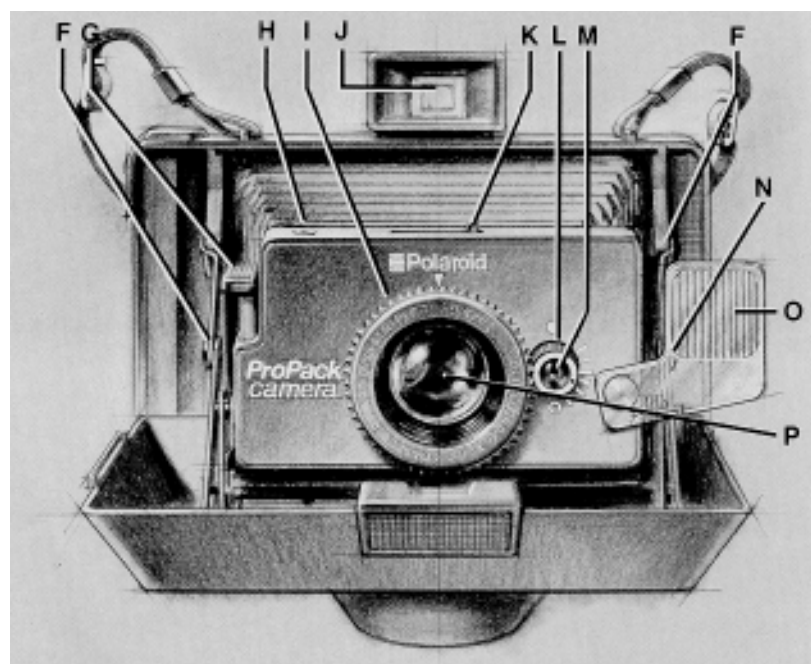
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For warranty service the equipment must be returned to and repaired by a Polaroid Service Center or Authorized Service Center.

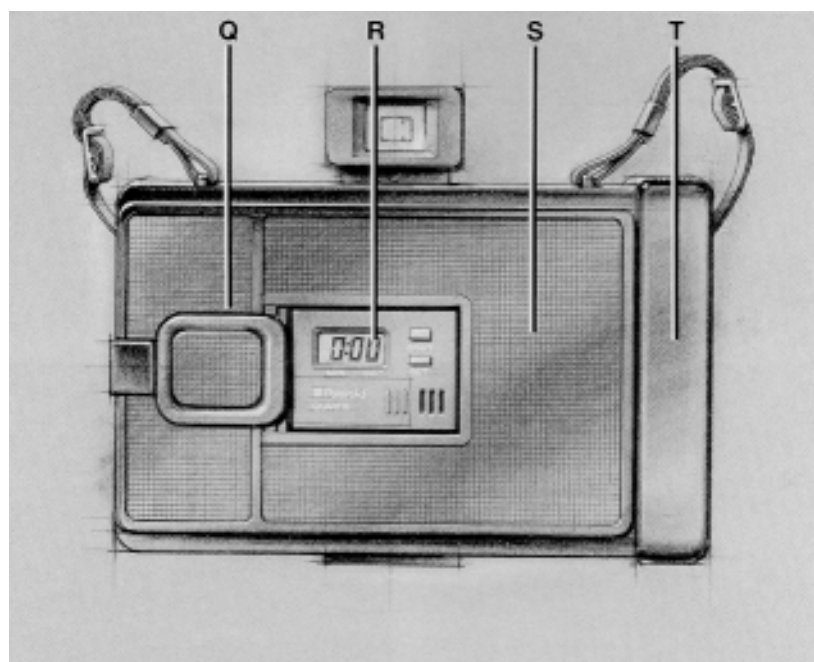
This warranty does not affect your statutory rights.



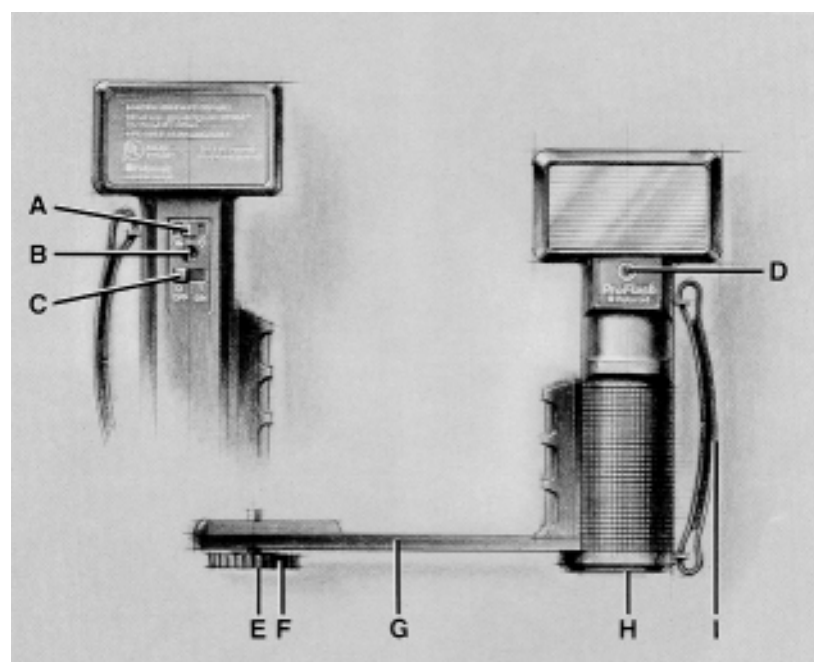
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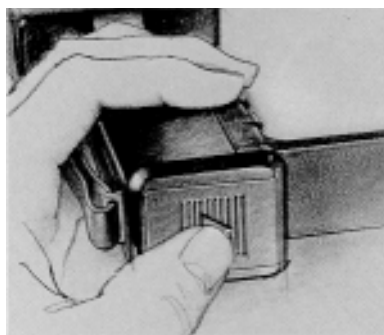


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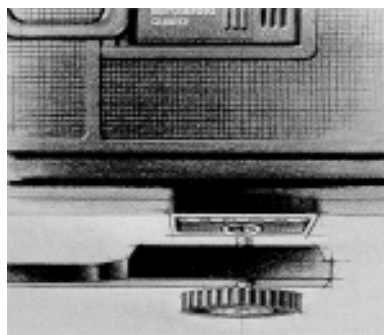


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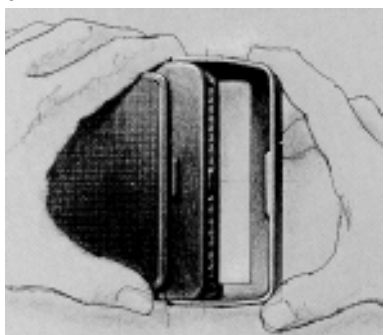




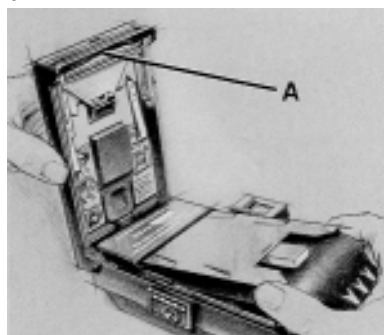
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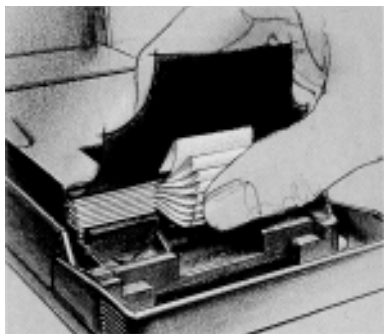
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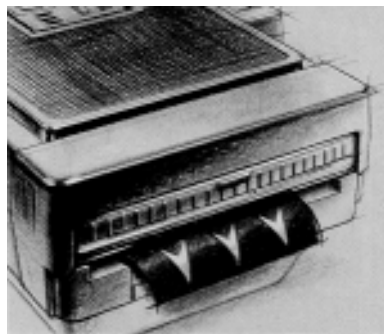
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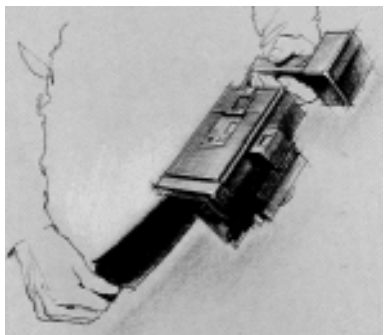
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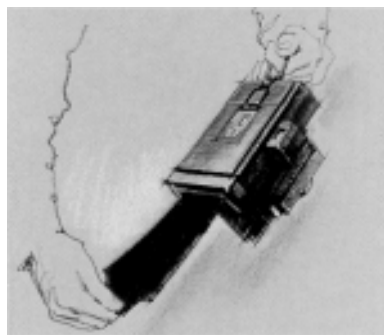
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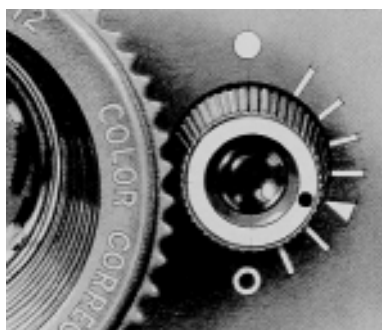


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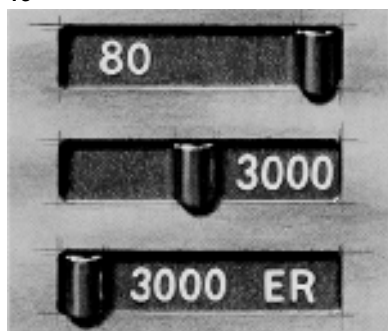
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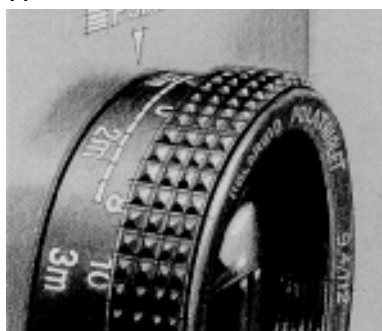
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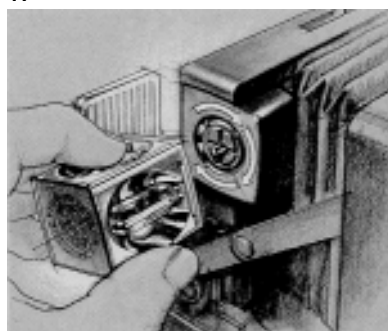
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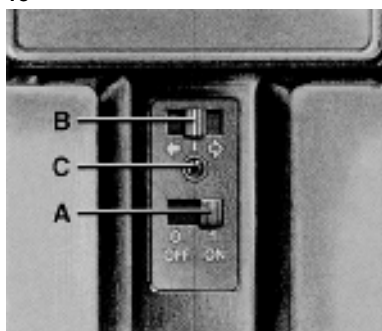
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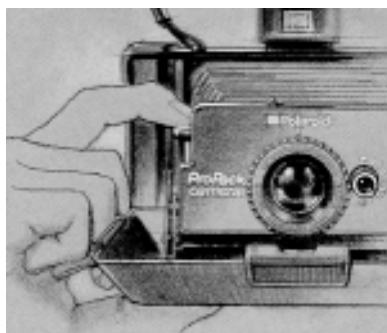
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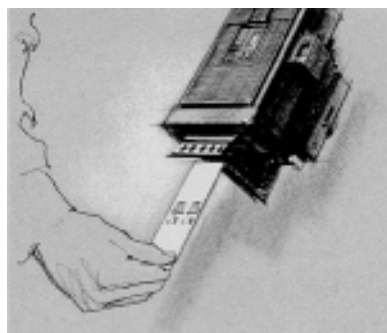
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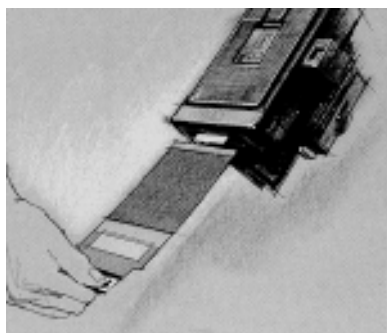
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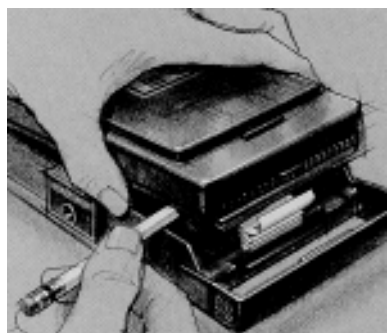
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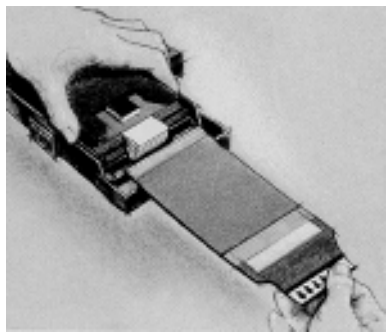
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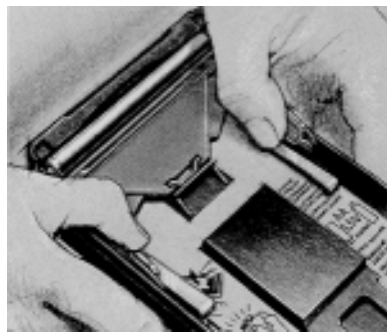
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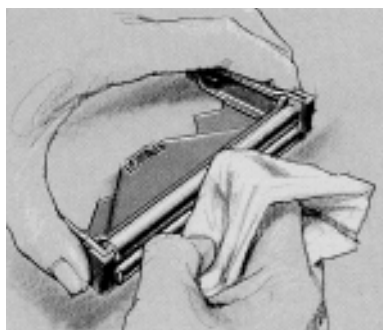
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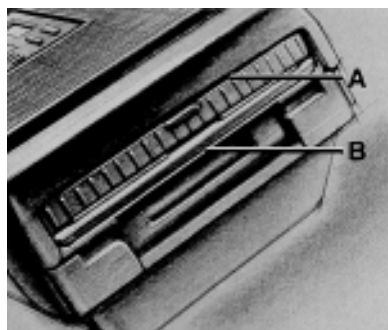
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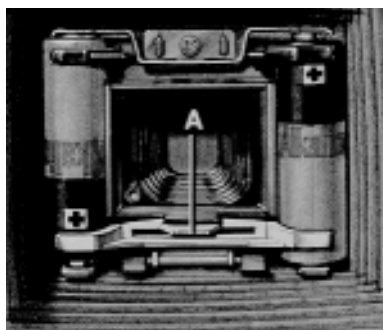
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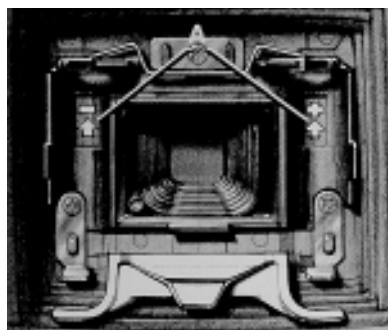
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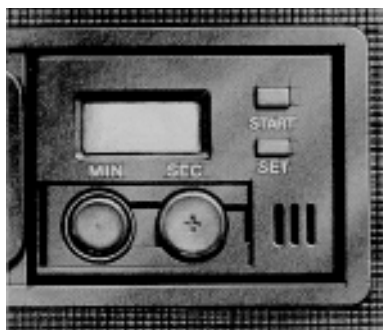
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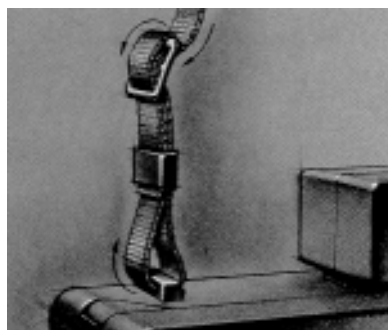
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